Brown and Caldwell Carson City, Nevada BORING LOG

| Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds Project Number: 136742 | | | | | | | | | | |
|---|-------------------|-------------------|--|--------------------|------------------------|---|-------------------------|-----------|---|--|
| Soil Boring: Monitoring Well: Piezometer: Boring/Well Name: OU4-UEP-08 Sheet 1 of 2 | | | | | | | | | | |
| Boring Location: OU4 Unlined Evaporation Ponds | | | | | | Northing: 1554102.64 | | | | |
| Drilling Contractor: WDC | | | | | | Top of PVC Elevation: Ground Surface Elevation: 4374.29 feet amsl | | | | |
| Drilling Equipment:Geoprobe | | | | | | | | | : 10-08-08 Date Finished: 10-08-08 | |
| Drilling Method: Direct-Push | | | | | | Completed Water Depth: 25 ft bgs Depth: 17 ft bgs | | | | |
| Sampling Method: Continuous Core Driller: Rick Smedley | | | | | | WELL CONSTRUCTION | | | | |
| Well Seal: N/A Borehole Diameter:2" | | | | | | Type and Diameter of Well Casing: N/A | | | | |
| Logged By: P. Bassett Drilling Fluid: N/A | | | | | | Slot Size: N/A Filter Material: Cement grout | | | | |
| | | | | | | | | | | |
| Depth (ft) | Elevation (famsl) | USCS Group Symbol | Material Description | Sample Type I Name | Sample Type I Location | Sample Type II Name | Sample Type II Location | Lithology | Remarks | |
| | - | ML | SILT (Pond Sediments) (0 - 1) Yellow, moist. | | | | | | | |
| - - 5- | 4370 — | SP | SAND (Native Soil) (1 - 8) Reddish brown, very loose and crumbly. Sand is medium- to coarse-grained and poorly graded. Visible quartz and feldspar phenocrysts derived from rhyolitic, volcanic rock formation. Sample: OU4-UEP-08A-SC from 3-6 feet. Sample: OU4-UEP-08A-SC-FD (Duplicate) from 3-6 feet. Sample: OU4-UEP-08A-MW from 3-15 feet. Composite sample from 3 borings spaced 6 inches apart. | OU4-UEP-08A-SC | | | | | Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System. Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet. Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line. All depths are below land surface unless stated otherwise. Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples. Type 2 Samples are representative of meteoric water mobility soil samples. | |
| - 10 — - | 4365 — | SM | Well-graded SAND with silt (8 - 10) Firm, slightly plastic. Sample: OU4-UEP-08A-SG from 8-10 feet. | OU4-UEP-08A-SG | | OU4-UEP-08A-MW | | | | |
| | | SP | SAND (10 - 13) Loose. Sand is medium- to coarse-grained and poorly graded. Sample: OU4-UEP-08B-SC from 10-13 feet. Sample: OU4-UEP-08B-SC-FD from 10-13 feet. | OU4-EUP-08B-SC | | | | | | |
| - | - 4360 — | ML | Sandy SILT (13 - 15) Sample: OU4-UEP-08B-SG from 13-15 feet. | OU4-EUP-08B-SG | | | | | | |

Carson City, Nevada

BORING LOG

Project Number: __136742 Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds Sheet _2 of _2 Boring/Well Name: OU4-UEP-08 Monitoring Well: Piezometer: Soil Boring: X Sample Type I Location
Sample Type II Name
Sample Type II Location **JSCS Group Symbol** Sample Type I Name Elevation (famsl) Depth (ft) Material Description Remarks silty SAND (15 - 17) Firm. SM SAND (17 - 21) SW Fine- to medium-grained sand, moderately graded with minor silt (?). Soil becomes saturated at 17 feet. OU4-EUP-08-GW Sample: OU4-UEP-08-GW from 17-20 feet. 4355 20 CLAY (21 - 21.2)
Thin, gray-colored, clay seam (approximately 2 inches CL SW SAND (21.2 - 25) Fine- to medium-grained sand, moderately graded and tightly packed. 4350 25 Bottom of Borehole at 25 feet below ground surface. 4345 30-